

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (Currently Amended) An optical disk storing a data structure for managing reproduction of at least one of video and audio data performed by a reproduction device, the optical disk comprising:

~~a data area storing~~ a stream file including the at least one of video and audio data

~~a clip information area storing~~ a clip information file including timing information of the at least one of video and audio data, the timing information including an entry point map mapping presentation time stamps to source packet addresses of the at least one of video and audio data;

~~a playlist area storing~~ a playlist file including at least one playitem identifying a pair of in-point and out-point pointing to the presentation time stamps in a clip of the at least one of video and audio data; and

~~a navigation area storing~~ at least one navigation file including a path item, the path item including a first navigation command for launching a single playlist file and a second navigation command for proceeding to a next path item, the path item providing parental control information for the at least one of video and audio data,

wherein the stream file, the clip information file, the playlist file and the navigation file are separate and have different file extensions from each other.

2.-14. (Cancelled)

15. (Currently Amended) The optical disk of claim 1, wherein the path item further includes a length ~~field indicator~~ indicating a length of the path item.

16. (Currently Amended) The optical disk of claim 1, wherein the path item further includes an attribute ~~field indicating indicator providing an indication of~~ at least one attribute of the path item.

17. (Previously Presented) The optical disk of claim 1, wherein the navigation file further includes a field indicating a number of the path items in the navigation file.

18. (Cancelled)

19. (Currently Amended) A method of recording a data structure for managing reproduction of at least one of video and audio data on an optical disk, the method comprising:

recording a stream file including at least one of video and audio data on-in-a
~~data area of~~ the optical disk;

recording a clip information file including timing information of the at least one of video and audio data on-in-a clip information area of the optical disk, the timing information including an entry point map mapping presentation time stamps to source packet addresses of the at least one of video and audio data;

recording a playlist file including at least one playitem identifying a pair of in-point and out-point pointing to the presentation time stamps in a clip of the at least one of video and audio data ~~on-in-a-playlist-area~~ of the optical disk; and

recording at least one navigation file including a path item ~~on-in-a-navigation-area~~ of the optical disk, the path item including a first navigation command for launching a single playlist file and a second navigation command for proceeding a next path item, the path item providing parental control information for the at least one of video and audio data,

wherein the stream file, the clip information file, the playlist file and the navigation file are separate and have different file extensions from each other.

20. (Currently Amended) A method of reproducing a data structure for managing reproduction of at least one of video and audio data recorded on an optical disk, the method comprising:

reproducing at least one navigation file including a path item recorded ~~on-in-a-navigation-area~~ of the optical disk, the path item including a first navigation command for launching a single playlist file and a second navigation command for proceeding a next path item, the path item providing parental control information for the at least one of video and audio data;

reproducing the playlist file launched by the navigation command, the playlist file including at least one playitem identifying a pair of in-point and out-point pointing to presentation time stamps in a clip of the at least one of video and audio data recorded ~~on-in-a-playlist-area~~ of the optical disk;

reproducing a clip information file including timing information of the at least one of video and audio data recorded ~~on-in-a-clip-information-area~~ of the optical disk,

the timing information including an entry point map mapping the presentation time stamps to source packet addresses of the at least one of video and audio data; and

reproducing a stream file including the at least one of video and audio data recorded ~~on-in-a-data-area-of~~ the optical disk,

wherein the stream file, the clip information file, the playlist file and the navigation file are separate and have different file extensions from each other.

21. (Currently Amended) An apparatus for recording a data structure for managing reproduction of at least one of video and audio data on an optical disk, the apparatus comprising:

a pickup configured to record a stream file including the at least one of video and audio data ~~on-in-a-data-area-of~~ the optical disk; and

a controller configured to control the pickup to record a clip information file including timing information of the at least one of video and audio data ~~on-in-a-clip information-area-of~~ the optical disk, the timing information including an entry point map mapping presentation time stamps to source packet addresses of the at least one of video and audio data,

the controller configured to record a playlist file including at least one playitem identifying a pair of in-point and out-point pointing to the presentation time stamps in a clip of the at least one of video and audio data ~~on-in-a-playlist-area-of~~ the optical disk, and

the controller configured to record at least one navigation file including a path item ~~on-in-a-navigation-area-of~~ the optical disk, the path item including a first navigation command for launching a single playlist file and a second navigation command for proceeding a next path item, the path item providing parental control information for the at least one of video and audio data in the navigation file,

wherein the stream file, the clip information file, the playlist file and the navigation file are separate and have different file extensions from each other.

22. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of at least one of video and audio data recorded on an optical disk, the apparatus comprising:

a pickup configured to reproduce data recorded in the optical disk;

a controller configured to control the pickup to reproduce at least one navigation file including a path item recorded ~~on a navigation area of~~ the optical disk, the path item including a first navigation command for launching a single playlist file and a second navigation command for proceeding a next path item, the path item providing parental control information for the at least one of video and audio data,

the controller configured to reproduce the playlist file launched by the navigation command, the playlist file including at least one playitem identifying a pair of in-point and out-point pointing to presentation time stamps in a clip of the at least one of video and audio data recorded on ~~in a playlist area of~~ the optical disk,

the controller configured to reproduce a clip information file including timing information of the at least one of video and audio data recorded on ~~in a clip information area of~~ the optical disk, the timing information including an entry point map mapping the presentation time stamps to source packet addresses of the at least one of video and audio data, and

the controller configured to reproduce a stream file including the at least one of video and audio data recorded on ~~in a data area of~~ the optical disk,

wherein the stream file, the clip information file, the playlist file and the navigation file are separate and have different file extensions from each other.

23.-26. (Cancelled)

27. (Previously Presented) The apparatus of claim 22, wherein the at least one of video and audio data forms different parental control reproduction paths, and the apparatus further comprises:

an interface unit configured to communicate with the controller to select one of the different parental control reproduction paths.

28. (Previously Presented) The apparatus in claim 27, wherein the interface unit receives user input on the different parental control reproduction paths, and the controller controls the reproduction of the at least one of video and audio data based on the user input.

29. (Cancelled)

30. (Currently Amended) The method of claim 19, wherein the path item further includes an attribute field indicating ~~indicator providing an indication of~~ at least one attribute of the path item.

31. (Previously Presented) The method of claim 19, wherein the navigation file further includes a field indicating number of the path items in the navigation file.

32. (Currently Amended) The method of claim 20, wherein the path item further includes an attribute field indicating ~~indicator providing an indication of~~ at least one attribute of the path item.

33. (Previously Presented) The method of claim 20, wherein the navigation file further includes a field indicating number of the path items in the navigation file.

34. (Currently Amended) The apparatus of claim 21, wherein the path item further includes an attribute field indicating indicator ~~providing an indication~~ of at least one attribute of the path item.

35. (Previously Presented) The apparatus of claim 21, wherein the navigation file further includes a field indicating number of the path items in the navigation file.

36. (Currently Amended) The apparatus of claim 22, wherein the path item further includes an attribute field indicating indicator ~~providing an indication~~ of at least one attribute of the path item.

37. (Previously Presented) The apparatus of claim 22, wherein the navigation file further includes a field indicating number of the path items in the navigation file.